

## Sumiko KOBAYASHI\*: A new orchis in the Bonin Islands

小林純子: 小笠原島産ラン科植物の一新種

(Pl. IV)

In a previous report on the new discovery of the flowering specimen of *Malaxis* [Journ. Jap. Bot. 53: 254-256 (1978)] in Hahajima, situated 50 km south of Chichijima, I made a taxonomical description on the living specimen and treated it as *Malaxis boninensis* (Koidz.) Nackejima, the same species as of Chichijima.

Later, in October, 1978, I discovered another living specimen of *Malaxis* at Chichijima, and cultivated to flower in Tokyo. On accurate observation, I have recognized the specimen of Hahajima as a new species.

This paper is to give the description of new species, and the additional description of *Malaxis boninensis* based on the living specimen.

***Malaxis hahajimensis*** S. Kobayashi, sp. nov.

Syn. *Malaxis boninensis* (non Koidz.) Kobayashi, Journ. Jap. Bot. 53: 254, figs. 1-2, Pl. II (1978).

A *Malaxis boninensis* (Koidz.) Nackejima, foliis latioribus, ovato-oblongis vel late ellipticis, racemo laxiore, bracteis angustioribus, lanceolatis, acutis, deflexis, ovario longiore, floribus minoribus, sepalis latioribus, labello purpureo et lobo antico labelli brevioris, auriculis labelli parallelis sursum inter se non approximatis statim dignoscenda.

Herba terrestris, pseudobulbosa. Caulis basi decumbens radicibus pluribus emittens, sursum ascendens, erectus, usque ad 30 cm altus, glaber, 3-5-foliatus, apice in scapum exiens. Folia tenue carnosa, ovato-oblonga vel late elliptica 6-11 cm longa 3.5-5.5 cm lata, apice acuta, basi in petiolum 3-5 cm longum vaginato-decurrentia. Scapus erectus teres glaber, racemo laxo 25-30 floro elongato. Ovarium in anthesi 6-10 mm longum. Bractee lanceolatae, acutae, deflexae, inferiores ca. 8 mm longae, superiores sensim abbreviatae. Flores inversi horizontaliter patentes praeter labellum purpureum pallide virescentes. Sepalum intermedium oblongum ca. 3.9 mm longum 2.0 mm latum, lateralia

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ovato-elliptica ca. 3.2 mm longa, 2.0 mm lata, omnia apice obtusa leviter reflexa trinervia. Petala ca. 3.2 mm longa, 0.6 mm lata lineari-oblonga obtusa quam sepala breviora et angustiora uninervia insigniter reflexa. Labellum valde concavum basi bi-auriculatum, auriculis ca. 2.7 mm longis sublancoelatis, apice obtusis basi exteriore angulatis, parallelibus sursum inter se non approximatis, lobo antico ovato ca. 2.2 mm longo et lato, medio 1-sulcato, apice producto obtuso, summa vix bifido. Capsulae ellipticae 6-7 mm longae, pedicellis in fructu 5-6 mm longis ( $2n=36$ ; Mikio Ono, 1977).

Nom. Jap.: Hahajima-hozakiran (nov.)

Hab.: Bonin; Insl. Hahajima, in sylvis umbrosis humidioribus, ca. 300-400 m alt. (S. Kobayashi, Aug. 11, 1977, fl-Typus in MAK 161813; M. Ono & S. Kobayashi, Mar. 25, 1971, sterile in MAK 124948).

Distr.: Endemica.

**Malaxis boninensis** (Koidz.) Nackejima, Biol. Soc. Okinawa 13: 31 (1975).  
*Microstylis boninensis* Koidz., Bot. Mag. Tokyo 32: 137 (1918).

Additional description; Leaves narrow, yellowish green, lanceolate-oblong or elliptic, 5-10 cm long, 2.5-3.5 cm wide, usually trinerved, petioles obvious. Racemes rather densely 25-35 flowered, ovary with short pedicel in flowering time 4-5 mm long. Bracts linear ca. 10 mm long at lower part, slightly reflexed.

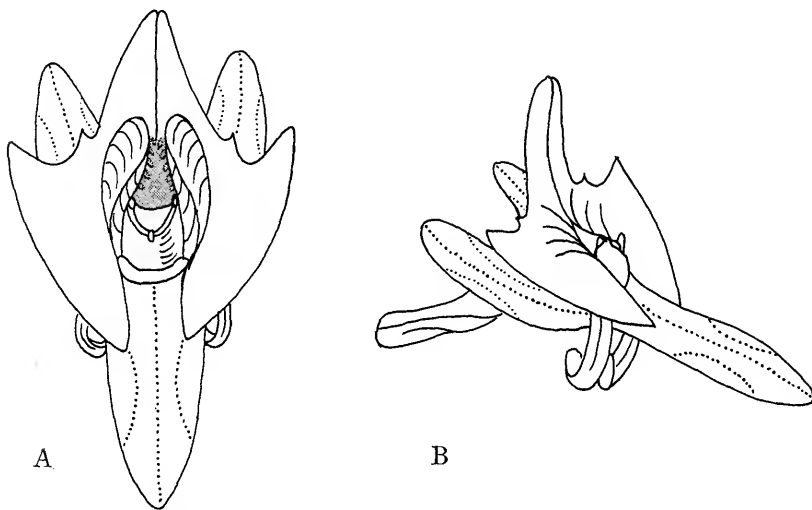


Fig. 1. *Malaxis boninensis*. A. Flower, front view; B. Do, lateral view.  $\times 7$ .

Flowers pale green, middle sepal oblong, 4.5 mm long, 1.7 mm wide, acute at the apex, tri-nerved, reflexed; lip deeply concave at the base, biauriculate; auricles lanceolate, ca. 4 mm long, acute at both ends, arched inwardly; apical lobe elliptical-ovate, obtuse, about the same length as the auricle, scarcely bi-lobed at the apex, with an acute small tooth at the each side of the base. The several small processes at the upper concaved sides of the auricles. Fls. Sept.—Oct.

Hab.: Bonin, Isl. Chichijima, sine loco speciali (Nishimura, Sept., 1917, fl.-Type in TI); Takeda-bokujō; semi-humid forest ca. 200–250 m alt. on the rock of the river side (S. Kobayashi, Oct., 1978, sterile; Oct. 7, 1979, fl., cult. in Tokyo—MAK 179033).

#### Explanation of the Plate IV

*Malaxis boninensis*. A. Habitat. B, C. Flower, front view  $\times 7$ . D. Part of raceme ca  $\times 3.5$ .

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前報〔本誌 53: 254–256, Pl. II (1978)〕で、母島産の *Malaxis* の1種を父島産のシマホザキラン *M. boninensis* (Koidz.) Nackejima と同種のものとして報告した。その後父島産の生品 (sterile) を 1978年10月に見つけて東京に持帰り、翌年10月開花させて、観察、記録し、写真と図を作製した。その結果、母島産のものは父島産とは異なる種であることを確認したので、改めてここに新種として記載し、父島産のものには、生品から得た新たな記載を追加した。

父島産のものは、旧武田牧場あとのやや湿った 広葉樹林内の溪流岩上に数株 (sterile) を確認したのみで、生育状態からみて充分保護する必要があると思われる。

本報告をまとめるに当って、適切な助言を与えられた東京大学の山崎敬博士及び糸山泰一両氏に対し、また、父島の生品入手に御協力いただいた小笠原高校の安井隆彌教諭に対して、深甚なる謝意を表する。